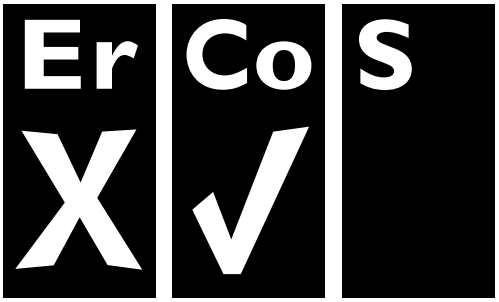
Micro Hi-Fi System

MC-V320

PHILIPS



Optimum disc playability : ensuring excellent picture quality

Philips components and modules for the various CD applications have always enjoyed an excellent reputation in the market place for super disc playability - the ability to play discs which may be scratched, soiled or not fully according to the standard specification. This position has been underlined by tests showing the superior performance of the various Philips players, as well as by the positive experiences of millions of individual consumers around the world.

Constantly improving performance

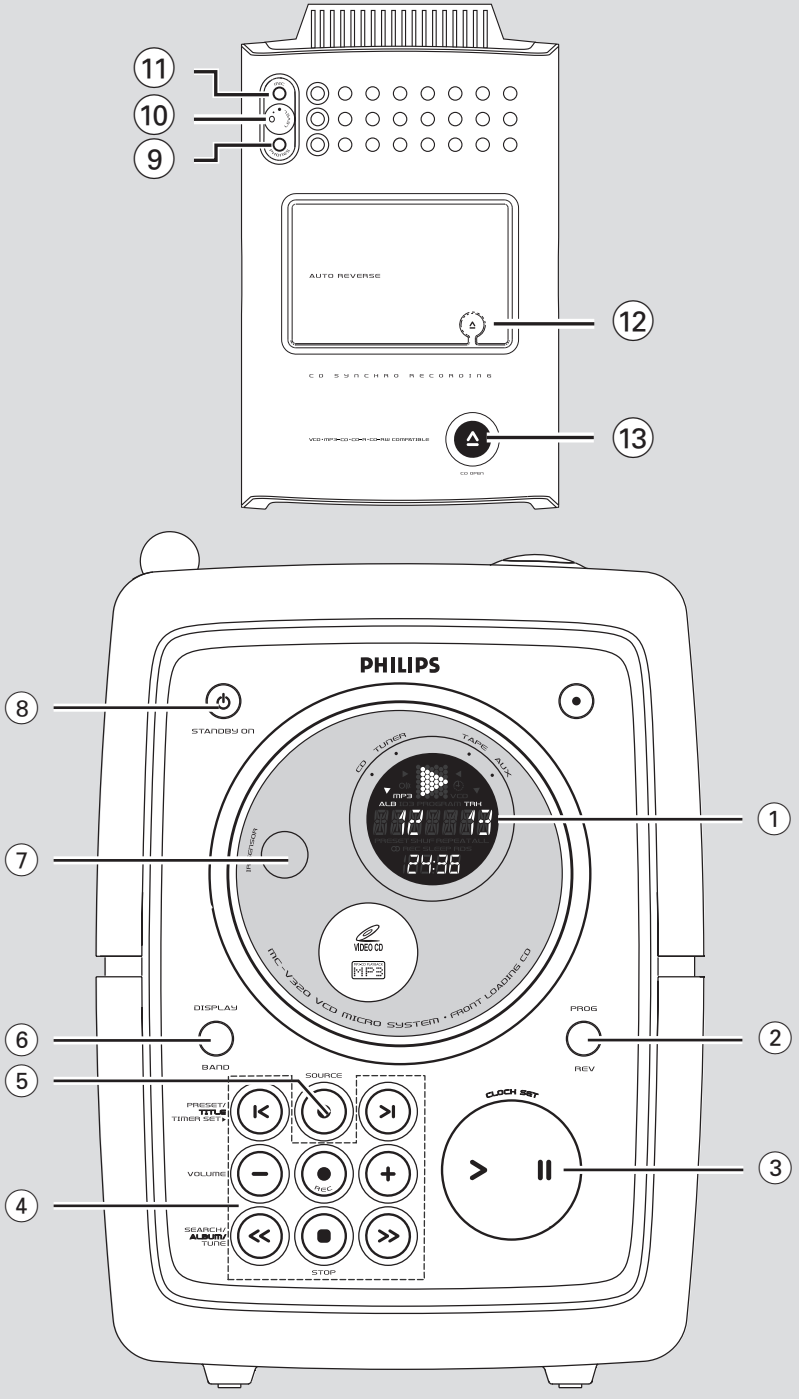
As the penetration of the CD system has increased, and new applications like CD-ROM and Video CD have become commonplace, Philips Components - as the CD technology inventor and as one of the major suppliers of CD player modules in the industry - has constantly improved the performance of its products.

One of the ways in which this benefits users is by optimum disc playability. This is an important parameter for CD players other than CD Audio, and especially for the Video CD applications, because any loss of data from the disc will at best cause disturbances in the reproduced picture, and at worst can cause the player to lose track so that disc playing fails.

Presenting Super Error Correction

To ensure consistently good results when playing Video CD discs of all quality grades and conditions, Philips has introduced further improvements in the system's playability. These developments together are called Super Error Correction, a proprietary Philips technology optimizing the system's ability to handle less-than-perfect discs with the minimum disturbance to normal playing.

By effectively eliminating virtually all errors arising under normal playing conditions, Super Error Correction ensures that the picture quality as seen by the user is independent of disc play. The video encoding and processing during mastering of the disc, and the MPEG-1 decoding and video encoding in the signal processing stages, are now the only limiting factors for picture quality.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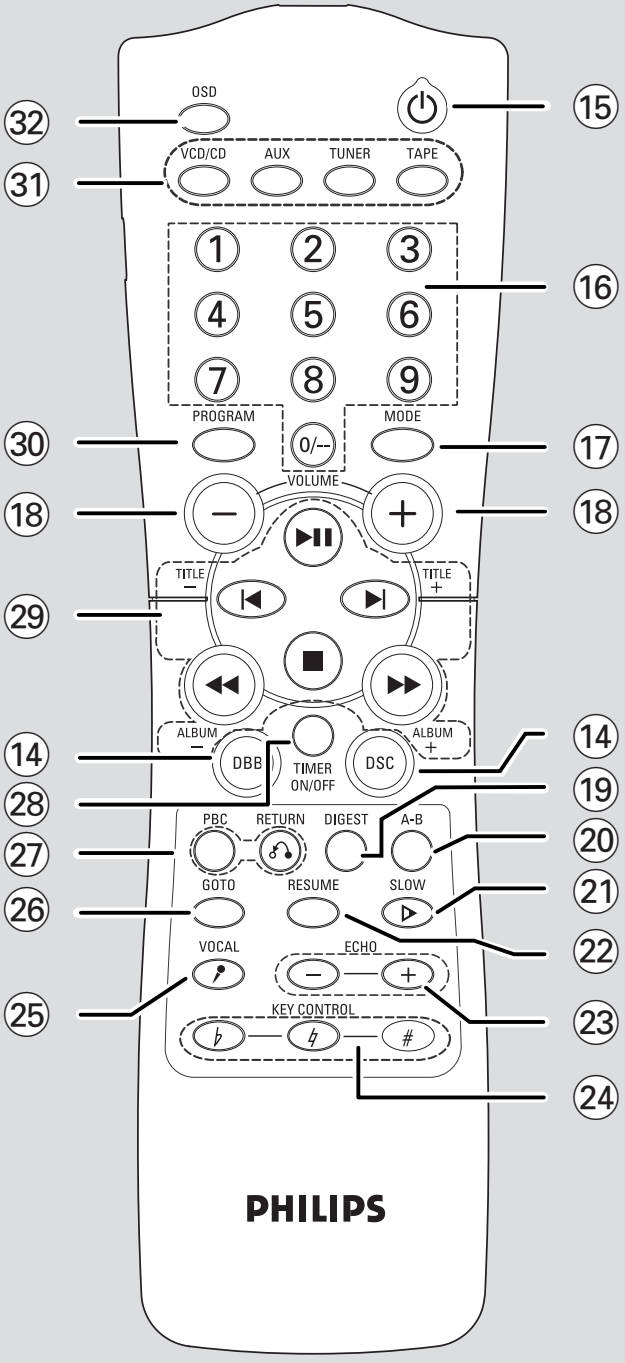
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English

中文

CAUTION

Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.

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IMPORTANT!
PLEASE NOTE THAT THE VOLTAGE SELECTOR LOCATED AT THE REAR OF THIS SYSTEM IS PRESET AT 220V FROM THE FACTORY. FOR COUNTRIES THAT OPERATE AT 110V-127V, PLEASE ADJUST TO 110V-127V BEFORE YOU SWITCH ON THE SYSTEM.

Environmental Information

All unnecessary packaging has been omitted. We have tried to make the packaging easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

Your system consists of materials which can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

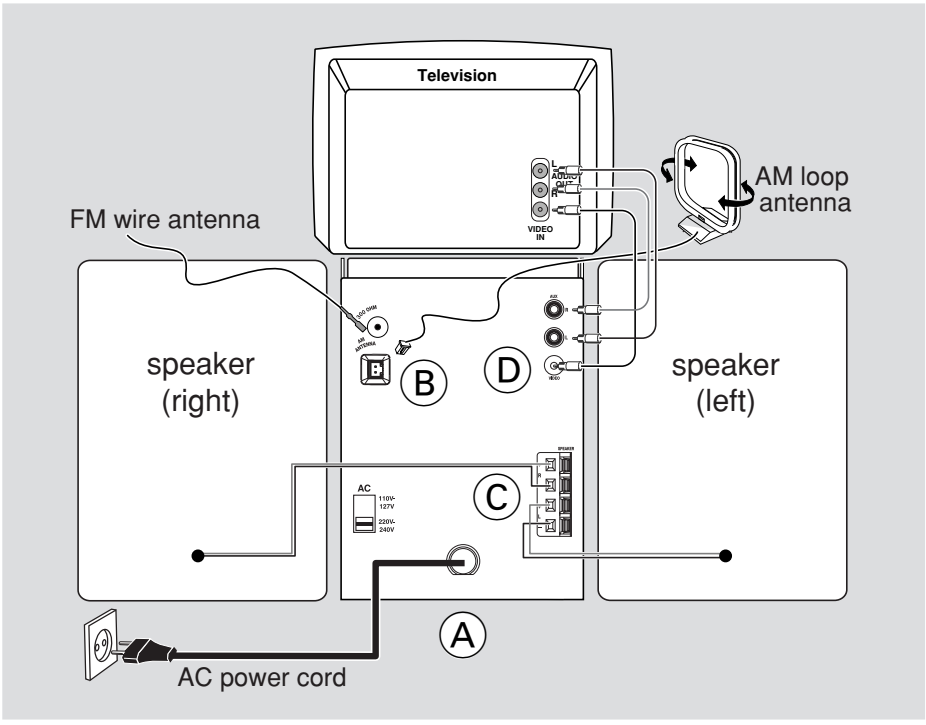
Supplied accessories

- Remote control
- Batteries (two AA size) for remote control
- AM loop antenna
- FM wire antenna
- One Video cinch cable
- 2 speaker boxes

Safety Information

- Before operating the system, check that the operating voltage indicated on the typeplate (or the voltage indication beside the voltage selector) of your system is identical with the voltage of your local power supply. If not, please consult your dealer.
- Place the system on a flat, hard and stable surface.
- Place the system in a location with adequate ventilation to prevent internal heat build-up in your system. Allow at least 10 cm (4 inches) clearance from the rear and the top of the unit and 5 cm (2 inches) from each side.
- Do not expose the system, batteries or discs to excessive moisture, rain, sand or heat sources caused by heating equipment or direct sunlight.
- If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens of the disc unit inside the system. Should this occur, the CD player would not operate normally. Leave the power on for about one hour with no disc in the system until normal playback is possible.
- The mechanical parts of the set contain self-lubricating bearings and must not be oiled or lubricated.
- **When the system is switched to Standby mode, it is still consuming some power. To disconnect the system from the power supply completely, remove the AC power plug from the wall socket.**

English



Rear connections

The type plate is located at the rear of the system.

Ⓐ **Power**

Before connecting the AC power cord to the wall outlet, ensure that the following are done;

– If your system is equipped with a Voltage Selector, set the VOLTAGE SELECTOR to the local power line voltage.

– All other connections have been made.

WARNING!

– For optimal performance, use only the original power cable.

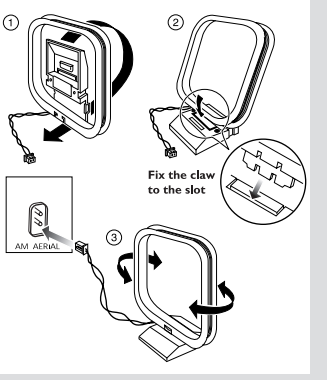
– Never make or change any connections with the power switched on.

To avoid overheating of the system, a safety circuit has been built in. Therefore, your system may switch to Standby mode automatically under extreme conditions. If this happens, let the system cool down before reusing it *(not available for all versions)***.**

Ⓑ **Antennas Connection**

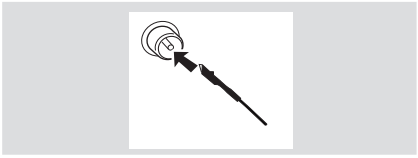
Connect the supplied AM loop antenna and FM antenna to the respective terminals. Adjust the position of the antenna for optimal reception.

AM Antenna



- Position the antenna as far as possible from a TV, VCR or other radiation source.

FM Antenna

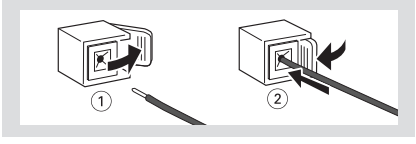


- For better FM stereo reception, connect an outdoor FM antenna to the FM AERIAL (FM ANTENNA) terminal.

Ⓒ Speakers Connection

Front Speakers

Connect the speaker wires to the SPEAKERS terminals, right speaker to "**RIGHT**" and left speaker to "**LEFT**", colored (marked) wire to "+" and black (unmarked) wire to "−".



- Fully insert the stripped portion of the speaker wire into the terminal as shown.

Notes:

– For optimal sound performance, use the supplied speakers.

– Do not connect more than one speaker to any one pair of + / − speaker terminals.

– Do not connect speakers with an impedance lower than the speakers supplied. Please refer to the SPECIFICATIONS section of this manual.

Ⓓ Video Out Connection

Connect the **VIDEO OUT (CVBS)** terminal at the rear of the system to the TV or VCR VIDEO IN for viewing or recording.

Note:

– To avoid magnetic interference with the picture on your TV, do not position the front speakers too close to the TV.

Optional connection

The optional equipment and connecting cords are not supplied. Refer to the operating instructions of the connected equipment for details.

Connecting other equipment to your system

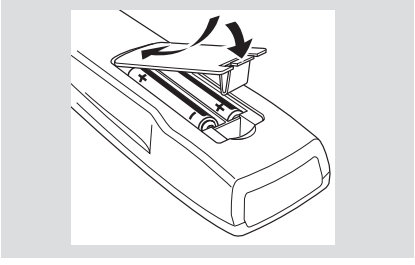
Connect the audio left and right OUT terminals of a TV, VCR, Laser Disc player, DVD player or CD Recorder to the **AUX** terminals.

Note:

– If you are connecting equipment with a mono output (a single audio out terminal), connect it to the AUX left terminal. Alternatively, you can use a "single to double" cinch cable (the output sound still remain mono).

Inserting batteries into the Remote Control

Insert two batteries (Type R06 or AA) into the remote control with the correct polarity as indicated by the + and − symbols inside the battery compartment.



CAUTION!

– Remove batteries if they are exhausted or not to be used for a long time.

– Do not use old and new or different types of batteries in combination.

– Batteries contain chemical substances, so they should be disposed off properly.

Controls *(main system's illustration on page 3&4)*

Controls on the system and remote control

① **Display**
– shows the status of the system.

② **PROG/ REV**
for VCD/ CD/ MP3 ..... programmes tracks and reviews the programme.
for TUNER ..... programmes tuner stations manually or automatically.
for TAPE ..... sets tape reverse mode

③ **CLOCK SET > II**
for CLOCK ..... set the clock function.
for VCD/ CD/ MP3 ..... starts or interrupts CD playback
for TAPE ..... starts the tape playback

④ **Mode Selection**
VOLUME (– / +)
– adjusts the volume level.
– *on the system only* - adjusts the hour and minutes for the clock/timer functions.
PRESET/ TIMER SET I< / >I (TITLE –/+)
for TUNER ..... selects a preset radio station.
for VCD/ CD/ MP3 ..... skips to the beginning of a current track/ previous/ subsequent track
..... select next or previous menu
for Timer (**I<** only) to set timer under standby
SEARCH/ TUNE << / >> (ALBUM –/+)
for TUNER ..... Tune to a station
for VCD/ CD ..... fast searches back and forward within a track.
for MP3 ..... ALBUM select.
for TAPE ..... fast rewind/ wind tape
STOP ■
for VCD/ CD/ MP3 ..... stops VCD/ CD/ MP3 playback or erase a VCD/ CD/ MP3 programme.
for TUNER ..... stops programming
for TAPE ..... stops tape playback/ recording.
REC ● ..... starts recording.

⑤ **SOURCE ●**
– selects the respective sound source for CD/ TUNER/ TAPE /AUX.
– switches on the system.

⑥ **DISPLAY-BAND**
for TUNER ..... change the tuner radio band.(FM/ MW)
for VCD/ CD/ MP3 ..... change the CD display mode
for TAPE ..... select tape direction

⑦ **iR SENSOR**
– infrared sensor for remote control.

⑧ **STANDBY ON ⏻**
– switches the system to standby.

⑨ **PHONES** - connects to headphone.

⑩ **LEVEL (mic)**
– to adjust the mixing level for karaoke or microphone recording.

⑪ **MIC**
– to connect microphone jack.

⑫ **⏏**
– open/ close the cassette door.

⑬ **CD OPEN ⏏**
– open the CD door.

⑭ **INTERACTIVE SOUND controls:**
DBB ..... (Dynamic Bass Boost) enhances the bass.
DSC ..... (Digital Sound Control) selects sound characteristics: CLASSIC/ JAZZ/ ROCK/ OPTIMAL.

⑮ **⏻**
– to switch the system to Standby mode.

⑯ **DIGIT 0/-- – 9**
*(numbers consisting more than two or three figures must be Press & hold **0/--**.)*
– to select a track number for CD/VCD/MP3-CD.
– to select tuner preset.

⑰ **MODE**
REPEAT
– repeats a track/ CD programme/ entire CD.
SHUFFLE
– plays CD tracks in random order.

⑱ **VOLUME (−/+)**
– to increase or decrease the volume.
– adjusts the hour and minutes for the clock/ times junctions.

⑲ **DIGEST**
– to scan through a VCD or a specific track.

⑳ **A - B**
– to playback a certain scene or passage of a CD/ VCD repeatedly.

㉑ SLOW ▷
– to watch the VCD at a slower speed.

㉒ **RESUME**
– to continue playback again from where you have stopped (for VCD with PBC switched off).

㉓ **ECHO −/+**
– to adjust the VCD echo level for karaoke after
㉔ inserted the microphone.

KEY CONTROL (♭ ♮ ♯)
– to change the VCD key tone level to suit your vocal range.
♭ ..... to decrease the key tone level.
♮ ..... to restore the key tone level to original setting.
㉕ ♯ ..... to increase the key tone level.

VOCAL
– to fade out the original vocal from a Karaoke VCD or to switch between mono or stereo mode during audio disc playback.

㉖ **GOTO**
㉗ select time to begin playback within track.

VCD Operation *(for VCD version 2.0 only)*

PBC (PLAYBACK CONTROL)
– to switch on or off PBC mode.

RETURN
– to return to the previous MENU level during playback (for VCD with PBC switched on).

㉘ **TIMER ON / OFF**
– activates/deactivates the timer function.

㉙ **Mode Selection**

PLAY PAUSE ▷II
for CD/VCD/MP3-CD… to start or interrupt playback.
for TAPE ..... to start playback.

<< / >> (ALBUM −/+)
for MP3-CD only ..... to select previous/next Album
for CD/VCD ..... to search backward/ forward.
for TUNER ..... to tune to a lower or higher radio frequency.
for TAPE ..... to rewind or fast forward.

STOP ■
for CD/VCD/MP3-CD ..... to stop playback or to clear a programme.
for TAPE ..... to stop playback or recording.
..... to reset tape counter number.

I< / >I (TITLE −/+)
for MP3-CD only ..... to select previous/next Title.
for VCD only ..... to select next or previous MENU or VCD track during playback *(for VCD with PBC switched on)*.
for CD/VCD ..... to skip to the previous or next track.
for TUNER ..... to select a preset radio station.

㉚ **PROGRAM**
for CD/VCD/MP3-CD… to programme disc tracks.
for TUNER ..... to programme preset radio stations manually or automatically

Controls

㉛ VCD/ CD

– to select disc (this system can playback normal CD/VCD/MP3-CD format disc).
– to select corresponding video output for NTSC or PAL system of your TV set (except Multi-system TV).

TUNER

– to select tuners mode.

TAPE

– to select tape deck mode.

AUX / (CDR/DVD)

– to select a connected external source : CDR/DVD or AUX (auxiliary) mode.

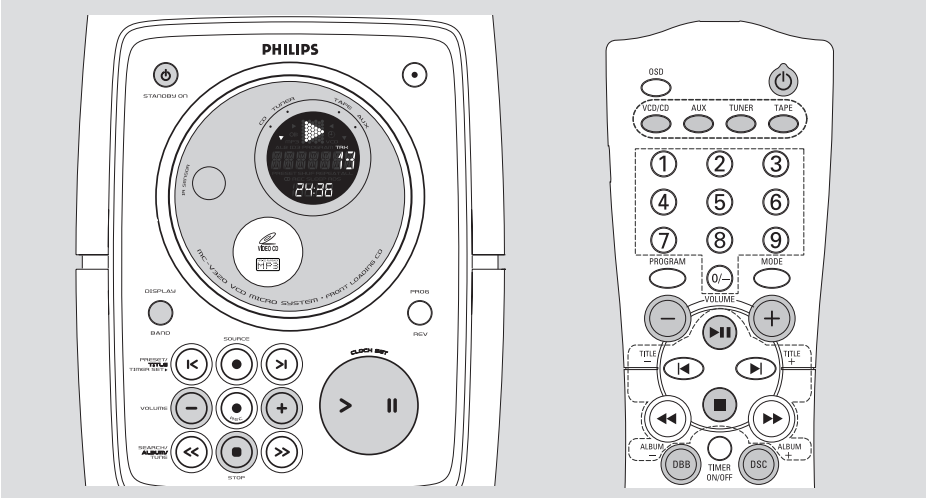
㉜ OSD (ON SCREEN DISPLAY)

– to switch on or off the on screen display on the TV.

Notes for remote control:

– First, select the source you wish to control by pressing one of the source select keys on the remote control (VCD/ CD or TUNER, for example).

– Then select the desired function (>II , I< , >I for example).



IMPORTANT!

Before you operate the system, complete the preparation procedures.

Switching the system on

- Press ⏻ **STANDBY ON**.
  ➜ The system will switch to the last selected source.
- Press **VCD**, **TUNER**, **TAPE** or **AUX** on the remote control.
  ➜ The system will switch to the selected source.

To switch the system to standby mode

- Press ⏻ **STANDBY ON**.
- If in recording mode, press **STOP** ■ first.
  ➜ The volume level(up to a maximum volume level of 20), interactive sound settings, last selected source and tuner presets will be retained in the player's memory.

Power-saving automatic standby

As a power-saving feature, the system automatically switches to standby 15 minutes after a tape or CD has reached the end and no control is operated.

Adjusting volume and sound

1 Press **VOLUME** –/+ to decrease to increase volume on the system.
➜ Display shows the volume level VOL and a number from MIN1, 2, ...38, 39 MAX.

2 Press **DSC** repeatedly to select the desired sound effect: CLASSIC/ JAZZ/ ROCK/ OPTIMAL.

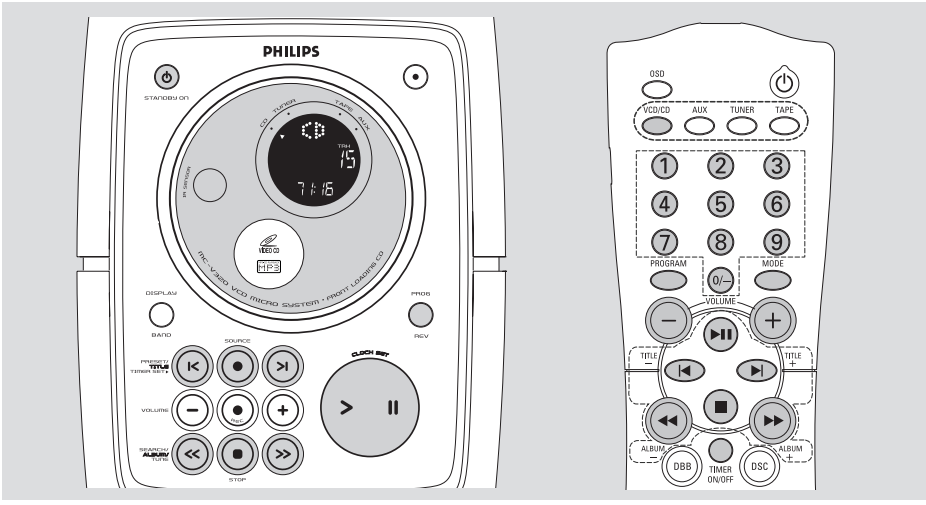
3 Press **DBB** to switch bass enhancement on or off.
➜ Display shows: **DBB ON or DBB OFF**.

Note:

– To listen through the headphones connect the headphones plug to the PHONES socket at the top of the system.

➜ The speakers will be muted.

CD/VCD/MP3-CD Operation



IMPORTANT!

– This system is designed for regular discs. Therefore, do not use any accessories such as disc stabiliser rings or disc treatment sheets, etc., as offered on the market, because they may jam the disc mechanism.

– Do not load more than one disc into the tray.

Before viewing the Video CD, ensure that the set is switched to corresponding PAL or NTSC system of your TV set (exception Multi-system TV).

Discs for Playback

This system can playback all digital audio CD, video CD, MP3-CD format discs, finalised digital audio CD-Recordable (CDR) discs and finalised digital audio CD-Rewritable (CDRW)discs.

Support following MP3-CD formats (IS09660 format):

- Max. Title/Album name - 8 characters
- Max. Title number plus Album is 640
- Max. nested directory is 8 levels
- The max. Album number is 255
- The max. MP3 programme track number is 40
- Supported VBR bit-rate
- Supported sampling frequencies for MP3 disc : 32 kHz, 44.1 kHz, 48 kHz
- Supported Bit-rates of MP3 disc are: 56, 64, 96, 128, 192, 256 (kbps)

Following formats can't be supported

- The files like *.WMA, *AAC, *.DLF, *.M3U, *.PLS
- Non English Album/Title name

Note:

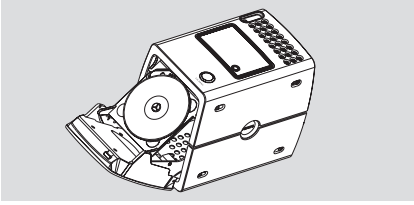
– For mixed mode discs, only one mode will be selected for playback depending on the recording format.

IMPORTANT!

The lens of the CD player should never be touched.

Playing a disc

- CD-ROM, CD-I, CDV, DVD or computer CDs, however, are not possible.



1 Select **VCD/ CD** source.

2 Press **CD OPEN** on the top of the system to open the CD compartment.
➜ OPEN is displayed when you open the CD compartment.

3 Put a disc with the printed side facing up and press down. Push the front panel to close.
➜ READING as the CD player scans the contents of a disc, and then the total number of tracks and playing time are shown. (CD/ VCD only)

4 Press **> II** to start playback.
➜ Current track number and elapsed playing time of the track are displayed during disc playback.

5 To interrupt playback press **> II** . Press **> II** again to resume play.

6 To stop disc playback, press **STOP ■**.

Note: CD play will also stop when;
– the CD door is opened.
– the disc has reached the end.
– you select another source: TAPE, TUNER or AUX.

For MP3-CD only

- Load a MP-3 CD format music disc on the disc tray.
➜ The total album number and total title/ track number "0 18 120" will be displayed. **MP3**, **ALB** and **TRH** will be shown.

Notes:
– Load the discs with the label side facing up.
– To ensure good system performance, wait until the disc completely reads the disc before proceeding.
– For MP3-CD, the disc reading time may exceed 10 seconds due to the large number of songs and different formats compiled into one disc.

Selecting a different track

- Press **I<** or **>I** once or repeatedly until the desired track number appears in the display.
- If you have selected a track number shortly after loading a disc or in the PAUSE position, you will need to press **> II** to start playback.
- Press digit **0/-- – 9** on the remote control to direction selecting the desired track.

For MP3-CD only

To select a desired Album

- Press **<<** or **>>** (or **ALBUM** –/+ on Remote Control) repeatedly until the desired Album appears on the display.
➜ **ALB** and "0xx 120" will be displayed.

To select a desired Title/ Track

- Press **I<** or **>I** (on **TITLE** –/+ on Remote Control) repeatedly until the desired Title appears on the display.
- Use the digital keys on the remote control to select the track.
➜ **TRH** and "0 18 xxx" will be displayed.

Notes:
*– **ALB** represents ALBUM and **TRH** represents Title/ Track, "xx" or "xxx" is the current selected Album or Title/ Track number.*
– Press & hold digit "0 / –" will show
– "– –" for CD & VCD
– "– – –" for MP3 then Press 0-9

Finding a passage within a track

To search for a particular passage during playback:

1 Press and hold down on **<<** or **>>** (on ◀◀ / ▶▶ on Remote Control)
➜ The disc is played at high speed and low volume. (CD only)

2 When you recognise the passage you want, release **<<** or **>>**. (on ◀◀ / ▶▶ on Remote Control)
➜ Normal playback continues.

Note:
– During a disc programme or if SHUFFLE/ REPEAT active, searching is only possible within the same track.

CD/VCD/MP3-CD Operation

For VCD only

- Press **<<** or **>>** to select 4 different search speed.
  ➜ "FRX1"; "FRX2"; "FRX3" or "FRX4" will be displayed on the TV screen when you select a fast rewind search.
  ➜ "FFX1"; "FFX2"; "FFX3" or "FFX4" will be displayed on the TV screen when you select a fast forward search.
  ➜ Normal playback will begin at the end of the fast rewinding or forwarding of the selected track.
- Play returns to normal when **PLAY > II** is pressed or when a new track is selected.

Different play modes: SHUFFLE and REPEAT

You can select and change the various play modes before or during playback. The play modes can also be combined with PROGRAM.

SHUFFLE ..... tracks of the entire disc are played in random order

SHUFFLE and REPEAT ALL… to repeat the entire disc continuously in random order

REPEAT ALL ... repeats the entire disc/ program

REPEAT ..... plays the current track continuously

1 To select your play mode, press the **MODE** on the remote control before or during playback until the display shows the desired function. (SHUF, REPEAT, REPEAT ALL)

2 Press **> II** to start playback if in the STOP position.

3 To return to normal playback, press the respective **MODE** button until the various SHUFFLE / REPEAT modes are no longer displayed.

- You can also press **STOP** ■ to cancel your play mode.

Notes:
- *Stop mode (Shuffle → Shuffle Repeat all → Repeat all → Repeat)*
- *Play mode (Repeat all → Repeat → Play)*
- *Shuffle Play mode (Shuffle → Shuffle Repeat all → Shuffle)*

Text display and ID3 Text

This feature use to display the title and album name for MP3-CD.

- Press **DISPALY** (**OSD** on Remote Control) repeatedly to display the title or album name and ID3 Text.

Notes:
- *Album No, Title No. & Play time*
- *Title Name & Play time*
- *Album Name & Play time*
- *ID3 TEXT (Title/ Artis/ Album & play time)*

Programming the disc tracks

Programming tracks is possible when playback is stopped. Up to 40 tracks can be stored in the memory in any order.

1 Load the desired discs on the disc tray.

2 Press the **VCD/ CD** button to select the Source.

3 Press **PROG/ REV** (**PROGRAM** on Remote Control) to start programming.
➜ A track number is shown and **PROGRAM** will on.

4 Press **I<** or **>I** (or **Digits 0/-- –9** on the remote control) repeatedly to select the desired track.

- For MP3-CD, press **ALBUM** —/+ and **TITLE** —/+ to select the desired Album and Title for programming.

5 Press **PROG/ REV** (**PROGRAM** on Remote Control) to store the track.

- Repeat ***steps 3–5*** to store other tracks.

6 Press **CLOCK SET > II** to start programme playback.

- To end programming without starting playback, press ■ **once**.

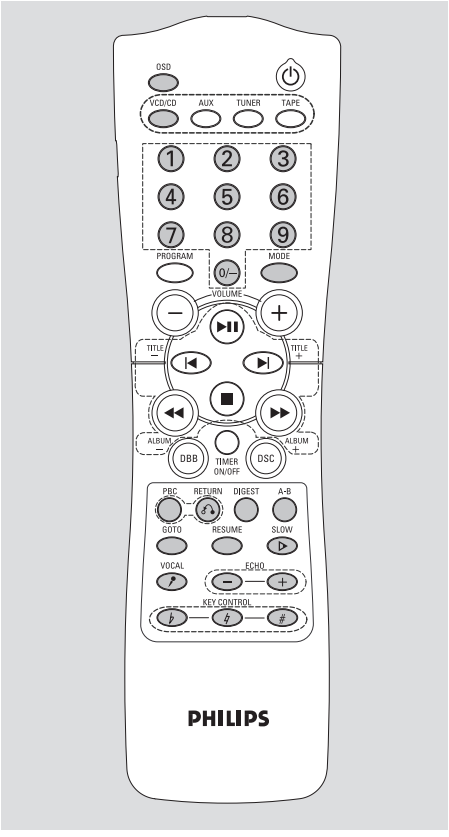
Notes:
- *Programme cannot be used for VCDs when PBC is switched on. Switch off PBC before storing tracks.*
- *If you attempt to programme more than 40 tracks, "MEMORY FULL" will be displayed.*

Erasing the program

You can erase the program by:

- pressing **STOP** ■ twice during playback;
- opening the CD compartment;
  ➜ **PROGRAM** disappears from the display.
- change to other source

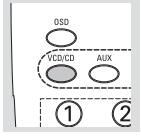
VIDEO CD



Adjusting the TV System

Before viewing the Video CD, ensure that the set is switched to corresponding PAL or NTSC system of your TV set (except Multi–system TV).

- Press and hold **VCD/ CD** on Remote Control for more than **3 seconds** to switch between PAL or NTSC TV system.
  ➜ After TV system is selected, the set will automatically switch to the last TV system setting every time the VCD source is selected.



Note:
– Before adjusting the TV system, make sure that there is no MP3-CD in disc tray during power up.

OSD – On Screen Display

If you insert VCD/ CD/ MP3, your TV screen will serve as an additional display for messages (e.g. PLAY, STOP), and information stored on the VCD.

- Press **DISPLAY or OSD** on the remote control repeatedly to switch on or off the On Screen Display.
  When OSD is switched ON; you can see the following display on the TV screen.
  Below is an example of the OSD message.
  – Track playtime
  – Track remain playtime
  – Total remain playtime
  – OFF

SINGLE ELAPSED
PLAY XX/TT MM:SS
– "XX" is the current track.
– "TT" is the total tracks.
– "MM" is in minutes.
– "SS" is in seconds.

Note:
– You can also view the information from a MP3-CD or normal CD.

Playing a Video CD with PBC

VCD with PBC (Playback Control) will be indicated on the display of the set as soon as they are inserted. PBC is a predefined play sequence stored on the VCD.

1 Switch on the TV, insert a VCD with PBC and press **> II** to start playback.
2 **MENU** appears on the TV screen.

If the menu consists of a list of titles, you can select a sequence directly

- Press **Digits 0/-- –9** on the remote control to select your choice.
  ➜ The VCD starts playing of the selected sequence automatically.

Note:
– If a menu consists of more than one page, press **I<** / **>I** *to go through the pages.*

Switching off PBC

- press **PBC** on the Remote Control.
  ➜ "PBC OFF" will be apears on the TV screen.

Notes:
– Programme mode is not available whenever PBC mode is switched on.
– The menu structure depends on the information stored on the VCD. Please refer to the information supplied with the disc.
*– Press & hold digit "**0/--**" will show "–" for CD & VCD, "—" for MP3 then Press 0-9.*

Return

- Press **RETURN** to return to the previous VCD disc MENU level. PBC mode must be switched on.

Digest

This feature allows you to scan through a VCD for a quick review. PBC mode must be switched off. There are four digest mode for selection.

1 Press **DIGEST** on the remote control.
➜ "DIGEST" appears on the display.
➜ "1. INTRO" , "2. DISC" , "3. TRACK" and "4.EXIT" appear on the TV screen.

- Press **digit** ① on the remote control to select "INTRO".
  ➜ The first 10 seconds of each track are played.
- Press **digit** ② on the remote control to select "DISC".
  ➜ The first frame of each track appears on the TV screen.
  ➜ Press **digit 0 – 9** on the remote control to playback the desired tracks.
  ➜ Press **I<** or **>I** to view the previous or next page for additional information.
- Press **digit** ③ on the remote control to select "TRACK".
  ➜ The first track of the selected disc will be divided into 9 parts and displayed on the TV screen.
  ➜ Press **digit 0 – 9** on the remote control to playback the desired parts.
  ➜ Press **I<** or **>I** to digest the next track.

2 To exit DIGEST mode, press **digit** ④ on the remote control to select "EXIT".

A-B Repeat

This feature is also applicable to audio CD *(except for MP3-CD)*. To play a certain scene or passage of the disc repeatedly.

1 Press **A-B** on the remote control during playback to mark the start of the chosen scene or passage.
➜ "SET A" appears on the display.

2 Press **A-B** again to mark the end of the chosen scene or passage.
➜ "SET B" appears on the display.

- The selected scene or passage is played repeatedly.
  ➜ "PLAY AB" appears on the display.

3 Press **A-B** once more to return to normal playback.
➜ "CLEAR AB" appears on the display.

Notes:
*– You can also cancel A-B Repeat by pressing **I<** or **>I**.*
– You can only able to set the A-B marking within the same track. Once it crosses from one track to the next, the A-B marking is reset.

GOTO

1 Press **GOTO**
➜ "--:--" appears on the TV screen.

2 Press **digit 0/-- – 9** the remoto control to select current track time to begin playback.

Notes:
– Switch off PBC before select GOTO.

Resume

This feature is also applicable to audio CD *(except for MP3-CD)*.

- In stop mode, press **RESUME** on the remote control to start playback again from where you have stopped.

Note:

– Resume information is lost if opened the disc tray, change source or disconnected the system from the power supply.

– Resume is not available when PBC mode is switched on.

Slow

1. Press **SLOW** on the remote control to watch a VCD at a slower speed. There are 3 types of slow modes to select.
   ➜ The sound will be muted.
   ➜ On TV screen, "**SLOW 1**", "**SLOW 2**" or "**SLOW 3**" will be displayed.
2. To resume playback at normal speed, press **PLAY ▶II**.

Vocal

This feature allows you to fade out the original vocal from a karaoke VCD. This feature is used together with Echo mode. You can also use it to select the different audio modes.

- Pressing **VOCAL** on the remote control repeatedly allows you to select the following modes.
  ➜ STEREO → STEREO VOCAL LEFT → STEREO VOCAL RIGHT → MONO LEFT → MONO RIGHT → STEREO ...

  STEREO – same effect as the original recorded disc.
  STEREO VOCAL LEFT/RIGHT – fade out the original vocal for special recorded Karaoke disc only *(with the ECHO mode switched on)*.
  MONO LEFT/RIGHT – select the language on a bilingual VCD.

  Ensure that Echo mode is switched on when press **VOCAL** to fade out the original vocal during STEREO VOCAL LEFT/RIGHT mode.

Key Control (♭ ♮ ♯)

This feature allows you to change the key tone of your vocal range.

- Press ♭ on the remote control to decrease vocal key level.
  ➜ "KEY -x" appears on the display.
- Press ♯ on the remote control to increase vocal key level.
  ➜ "KEY +x" appears on the display.
- Press ♮ on the remote control to restore vocal key to original setting.
  ➜ "KEY FLAT" appears on the display.

Note:

– "x" denotes the key level.

Echo

This feature allows you to add echo while singing or talking through a microphone.

- Press **ECHO −/+** on the remote control to decrease, increase or switch off the echo effect.
  ➜ "MIC OFF, MIC ON, ECHO +x" appears on the display.

Notes:

– "x" denotes the echo level.

– You are advised to switch off the echo effect when not using the feature.

Microphone Mixing

Connect a microphone (not supplied) to the system allowing you to sing along with the music source.

1. Connect a microphone to the MIC jack.
- Before connecting the microphone, set the **LEVEL** to the minimum level to prevent howling sound.
2. Press **VCD/ CD** source to be mixed and start playback.
3. Press Echo to switch "**MIC ON**".
4. Adjust the volume level of the source with **VOLUME** –/+ control.
5. Adjust the microphone volume with **LEVEL** control.

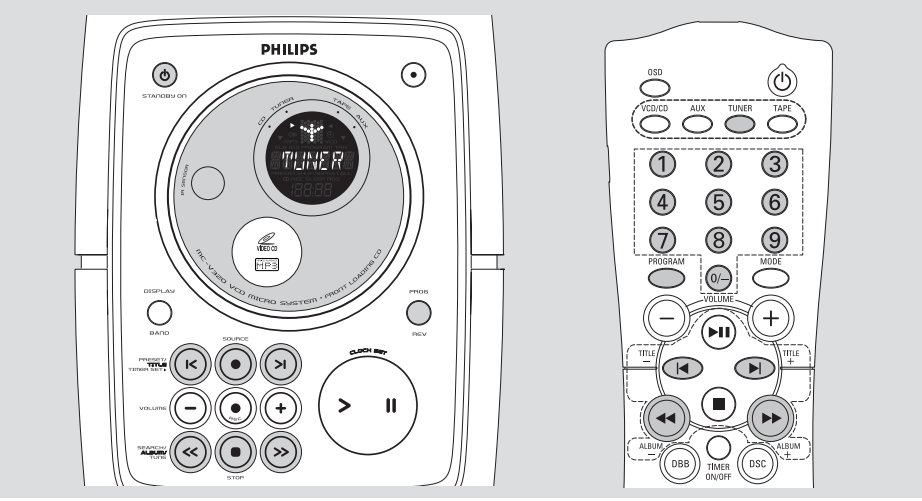
Notes:

– Keep the microphone away from the speakers to prevent howling.

– Mixing only on VCD/ CD/ MP3 mode.

For Recording, please refer to "Tape Operation/ Recording".

Radio Reception



Tuning to radio stations

1 Select **TUNER** source.
➜ *TUNER* is displayed briefly.

2 Press **BAND** on set only once or more to select your waveband (FM/ MW).

3 Press down **TUNE <<** or **>>** and release button.
➜ The radio automatically tunes to a station with sufficient reception. Display indication during automatic tuning: *SEARCH*.
➜ If a FM station is received in stereo, ∞ is shown.

4 Repeat step **3** if necessary until you find the desired station.

- To tune to a weak station, press **TUNE <<** or **>>** briefly and repeatedly until you have found optimal reception.

Programming radio stations

You can store up to a total of 40 radio stations in the memory.

Automatic programming

Automatic programming will start with a chosen preset number. From this preset number upwards, former programmed radio stations will be overridden. The system will only program stations which are not in the memory already.

1 Press **PRESET I<** or **>I** to select the preset number where programming should start.

Note:
– If no preset number is selected, default is preset (1) and all your presets will be overridden.

2 Press **PROG/ REV** (PROGRAM on remote control) for more than 2 seconds to activate programming.
➜ *AUTO* is displayed and available stations are programmed in order of waveband reception strength: FM followed by MW The last preset automatically stored will then be played.

Manual programming

1 Tune to your desired station (see "Tuning to radio stations").

2 Press **PROG/ REV** (PROGRAM on remote control) to activate programming.

3 Press **PRESET I<** or **>I** to allocate a number from 1 to 40 to this station.

4 Press **PROG/ REV** (PROGRAM on remote control) again to confirm the setting.
➜ The preset number and the frequency of the preset station are shown.

5 Repeat the above four steps to store other stations.

- You can override a preset station by storing another frequency in its place.

Radio Reception

Tuning to preset radio stations

- Press **PRESET I<** or **>I** (or **0/-- – 9** on Remote Control) until the desired preset station is displayed.

Changing Tuning Grid

In some countries, the frequency step between adjacent channels in the MW band is 10 kHz (9 kHz in some areas). The preset frequency step in the factory is 9 kHz.

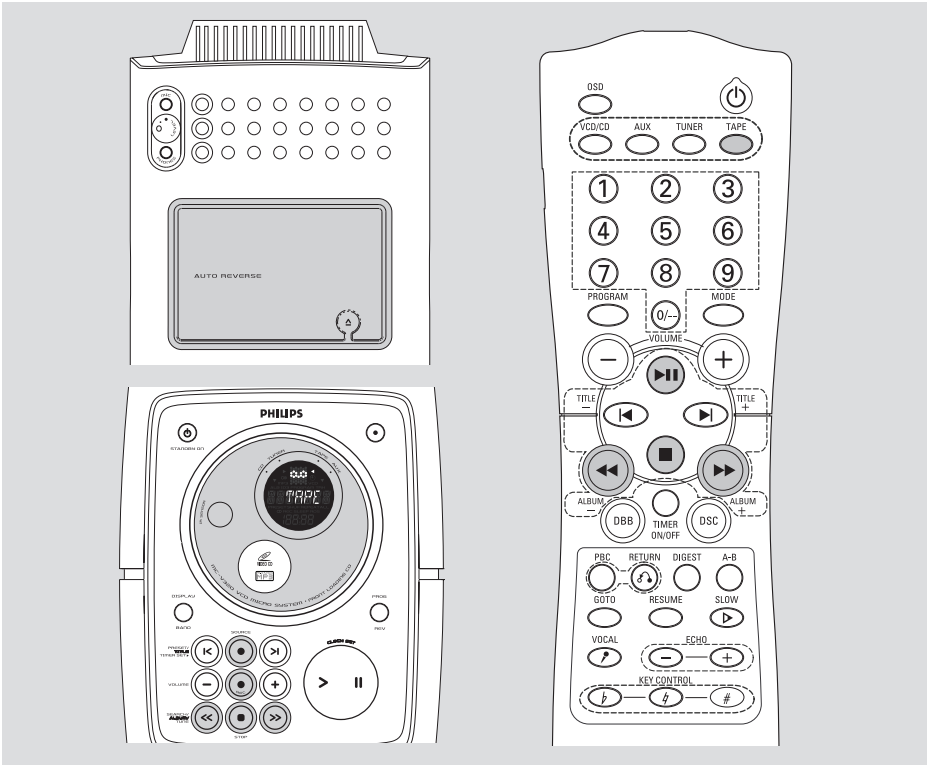
Changing the tuning grid will erase all previously stored preset radio stations.

1 Select **TUNER** source.

2 Press **STOP** on the set for at least 5 seconds.
➜ The display will show "GRID 9" or "GRID 10".

Notes:
– GRID 9 and GRID 10 indicate that the tuning grid is in step of 9 kHz and 10 kHz respectively.
– The FM tuning grid also will be changed from 50 kHz to 100 kHz or vice versa.

Tape Operation/Recording



Tape playback

1 Select **TAPE** source.

2 Press ⏏ to open the tape door on the top of the system.

3 Insert a recorded tape and close the tape door.

- Load the tape with the open side downward and the full spool to the right.
  ➜ The display shows TAPE briefly. The tape counter 0000 display with the **SIDE A** or **SIDE B**.

4 Press **> II** to start playback.

5 By pressing **<<** or **>>**, fast winding of tape is possible in both directions.

- During fast winding, you can monitor the tape message with the tape counter.

6 To stop the tape, press **STOP ■** .

- To reset the tape counter, press **STOP ■** again.

Note:

– The sound source cannot be changed while recording a tape.

– "NO TAPE" will be shown if no tape inserted.

Switching tape sides

The tape side can be switched manually or automatically before or during tape playback.

- Press **DISPLAY BAND** on set only.
  ➜ The display shows **SIDE A** or **SIDE B**.

Reverse mode options

- Press **PROG/ REV** repeatedly to select your option;

PLAY 1 SIDE	: playback or record stops at the end of the tape.
PLAY A AND B	: both sides are or recorded played once.
REPEAT A AND B	: both sides are played repeatedly, up to 5 times each side.

Tape Operation/Recording

General information on recording

- Recording is permissible insofar as copyright or other rights of third parties are not infringed.
- For recording, use only NORMAL (IEC type I) tapes on which the tabs have not yet been broken. This deck is not suited for recording on METAL (IEC IV) type tapes.
- The best recording level is set automatically. Altering the VOLUME, DBB or INTERACTIVE SOUND controls will not affect the recording in progress.
- At the very beginning and end of the tape, no recording will take place during the 7 seconds when the leader tape passes the recorder heads.
- To protect a tape from accidental erasure, have the tape in front of you and break out the left tab. Recording on this side is no longer possible. If, however, you wish to record over this side again, cover the tabs with a piece of adhesive tape.

Synchro start CD recording

1 Select **CD** source.

2 Insert a disc and if desired, program track numbers.

3 Press ⏏ to open the tape door.

4 Insert a suitable tape into the deck and close the tape door.

5 Press **REC** to start recording.
➜ **REC** is shown during recording.
➜ Playing of the CD program starts automatically from the beginning of the CD after 7 seconds. It is not necessary to start the CD player separately.

6 To stop recording, press **STOP** ■.

Recording from the radio

1 Select TUNER source and tune to the desired radio station (see "Tuning to radio stations").

2 Press ⏏ to open the tape door.

3 Insert a suitable tape into the deck and close the tape door.

4 Press **REC** to start recording.
➜ **REC** is shown during recording.

5 To stop recording, press **STOP** ■.

Recording from Aux

1 Select **AUX** source.

2 If necessary, prepare the additional appliance for recording.

3 Press **REC** to start recording.
➜ **REC** is shown during recording.

4 To stop recording, press **STOP** ■.

Recording timer

To record from the radio, you will need to use a preset radio station and to set a start (ON) and finish (OFF) time.

1 Insert a suitable tape into the deck.
➜ If desired, press **PROG/ REV** to select tape reverse mode option.
PLAY 1 SIDE : for recording one side only
PLAY A AND B : for recording on both sides
REPEAT A AND B : for recording on both sides

2 Select **TUNER SOURCE** and the preset radio station to record from.

3 Press **STANDBY ON** to switch the system to standby mode. Press **TIMER SET / I<** for more than 2 seconds.
➜ ⏲ flashes and a source is displayed.

4 Press **SOURCE** repeatedly, until **REC TUN** source is displayed.

5 Press **TIMER SET / I<** to confirm the source.
➜ SET ON TIME is displayed, ⏲ and the clock digits for the hours flash.

6 Press **VOLUME** –/+ to set the hours.

7 Press **TIMER SET / I<** again.
➜ The clock digits for the minutes flash.

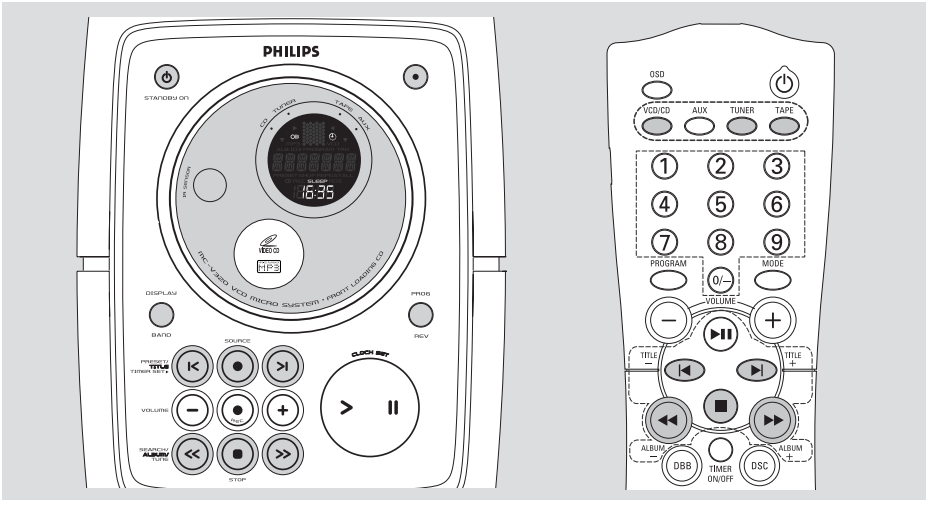
8 Press **VOLUME** –/+ to set the minutes.

9 Press **TIMER SET / I<** to confirm the ON start time.
➜ SET OFF TIME is displayed, ⏲ and the clock digits for the hours flash.

10 Repeat steps **6-8** to set the finish time.

11 Press **TIMER SET / I<** to confirm the timer settings.
➜ ⏲ is shown and the recording timer is now set.

Clock/Timer



Setting the clock

1 In standby, press and hold **CLOCK SET / >II**.
➜ The clock digits for the hours flash.

2 Press **VOLUME** –/+ to set the hours.

3 Press **CLOCK SET / >II** again.
➜ The clock digits for the minutes flash.

4 Press **VOLUME** –/+ to set the minutes.

5 Press **CLOCK SET / >II** to confirm the time.

Note:
– *The backlight for clock display is dim in standby.*

Setting the timer

- The system can be used as an alarm clock, whereby the CD, TUNER or TAPE is switched on at a set time. The clock time needs to be set first before the timer can be used.
- You can also use it to record a favourite tuner programme at a set period (see "Recording timer")
- During setting, if no button is pressed within 90 seconds, the system will exit timer setting mode automatically.

1 In standby mode, press **TIMER SET / I<** on the system for more than 2 seconds.

2 Press **SOURCE** or **VOLUME +/–** to select sound source.
➜ Display sequence shows CD, TUNER, TAPE or REC TUN.

3 Press **TIMER SET / I<** to confirm your desired mode.
➜ Display sequence scrolls SET ON TIME and ⏰ flashes. The clock digits for the hours flash.

4 Press **VOLUME** –/+ to set the hours.

5 Press **TIMER SET / I<** again.
➜ The clock digits for the minutes flash.

6 Press **VOLUME** –/+ to set the minutes.

7 Press **TIMER SET / I<** to confirm the time.
➜ The timer is now set and activated.

Activating and deactivating TIMER

- In standby or during playback, press **TIMER ON / OFF** on the remote control once.
➜ Display shows ⏰ if activated, and disappears if deactivated.

Specifications

AMPLIFIER

Output power ..... 2 x 20 W RMS
..... 800 W PMPO
Signal-to-noise ratio ..... ≥ 62 dBA
Frequency response ..... 63 – 16000 Hz, ± 3 dB
Input sensitivity AUX ..... 0.5 V (max. 2 V)
Impedance loudspeakers ..... 6 Ω
Impedance headphones ..... 32 Ω -1000 Ω
..... <0.5W

DISC PLAYER

Number of programmable tracks 40
Frequency response ..... 30 – 16000 Hz
Signal-to-noise ratio ..... ≥ 75 dBA
Channel separation ..... ≥ 79 dB (1 kHz)
Total harmonic distortion ..... < 0.02% (1 kHz)
MPEG 1 ..... VCD version 2.0
MPEG 1 Layer 3 (MP3-CD) ..... MPEG AUDIO
MP3-CD bit rate ..... 32 – 256 kbps
sampling frequencies ... 48 kHz, 44.1 kHz, 32 kHz

TUNER

FM wave range ..... 87.5 – 108 MHz
AM wave range (9 kHz) ..... 531 – 1602 kHz
AM wave range (10 kHz) ..... 530 – 1700 kHz
Tuning grid ..... 9/10 kHz
Sensitivity at 75 Ω
– mono, 26 dB signal-to-noise ratio ..... 2.8 µV
– stereo, 46 dB signal-to-noise ratio ..... 61.4 µV
Selectivity ..... ≥ 28 dB
Total harmonic distortion ..... ≤ 5%
Frequency response ..... 63 – 12500 Hz (± 3 dB)
Signal-to-noise-ratio ..... ≥ 50 dBA

TAPE DECK

Frequency response
Normal tape (type I) ..... 80 – 12500 Hz (8 dB)
Signal-to-noise ratio
Normal tape (type I) ..... 50 dBA
Wow and flutter ..... ≤ 0.4% DIN

SPEAKERS

Bass reflex system
Dimensions (w x h x d) . 166 x 225 x 244 (mm)
..... 6.5 x 8.8 x 9.6(inch)

GENERAL INFORMATION

AC Power
For Version /21-/21M ..... 110–127 / 220–240 V;
50–60 Hz Switchable
Dimensions (w x h x d) ... 166 x 225 x 274(mm)
..... 6.5 x 8.8 x 10.8(inch)
Weight(with/without speakers) ..... 8.4 / 4.3 kg
..... 17.2 / 9.5 pounds
Standby power consumption ..... <6W

Subject to modification

Maintenance

Cleaning the Cabinet

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.

Cleaning Discs

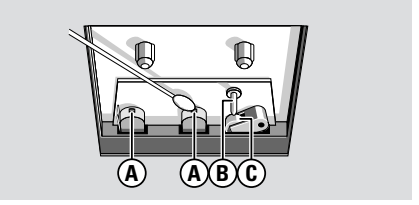
- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre out.
- Do not use solvents such as benzene, thinner, commercially available cleaners, or antistatic spray intended for analogue records.

Cleaning the disc lens

- After prolonged use, dirt or dust may accumulate at the disc lens. To ensure good playback quality, clean the disc lens with Philips CD Lens Cleaner or any commercially available cleaner. Follow the instructions supplied with cleaner.

Cleaning the Heads and the Tape Paths

- To ensure good recording and playback quality, clean the heads (A), the capstan(s) (B), and pressure roller(s) (C) after every 50 hours of tape operation.
  Caution: Do not rotate the heads during cleaning.
- Use a cotton swab slightly moistened with cleaning fluid or alcohol.
- You can also clean the heads by playing a cleaning tape once.



Demagnetising the heads

- Use a demagnetising tape available at your dealer.

Troubleshooting

WARNING

Under no circumstances should you try to repair the system yourself, as this will invalidate the warranty. Do not open the system as there is a risk of electric shock.

If a fault occurs, first check the points listed below before taking the system for repair. If you are unable to remedy a problem by following these hints, consult your dealer or service center.

Problem	Solution
CD OPERATION	
"NO DISC" **is displayed.**	– Insert a disc. – Check if the disc is inserted upside down. – Wait until the moisture condensation at the lens has cleared. – Replace or clean the disc, see "Maintenance". – Use a finalised CD-RW or CD-R.
No picture on TV screen.	– Connect the cable betwen the system and TV.
No colour on TV.	– Change the system to the respective PAL or NTSC setting.
Cannot adjust the TV system to PAL or NTSC.	– Remove the MP-3 CD from disc tray

Troubleshooting

RADIO RECEPTION

Radio reception is poor.	– If the signal is too weak, adjust the antenna or connect an external antenna for better reception. – Increase the distance between the Micro HiFi System and your TV or VCR.

TAPE OPERATION / RECORDING

Recording or playback cannot be made.	– Clean deck parts, see "Maintenance". – Use only normal (IEC I) tape for recording.
"CHECK TAPE" **is displayed.**	– Apply a piece of adhesive tape over the missing tab space.
The tape deck door cannot open.	– Remove and reconnect the AC power plug and switch on the system again.

GENERAL

The system does not react when buttons are pressed.	– Remove and reconnect the AC power plug and switch on the system again.
Sound cannot be heard or is of poor quality.	– Adjust the volume. – Disconnect the headphones. – Check that the speakers are connected correctly. – Check if the stripped speaker wire is clamped.
The left and right sound outputs are reversed.	– Check the speaker connections and location.
The remote control does not function properly.	– Select the source (CD or TUNER, for example) before pressing the function button (**> II**, **I<** , **>I**). – Reduce the distance between the remote control and the system. – Insert the battery with its polarities (+/– signs) aligned as indicated. – Replace the battery. – Point the remote control directly toward IR sensor on the front of the system.
The timer is not working.	– Set the clock correctly. – Press TIMER ON / OFF to switch on the timer. – If a recording is in progress, stop the recording.
The Clock/Timer setting is erased.	– Power has been interrupted or the power cord has been disconnected. Reset the clock/timer.